

CA ERwin[®] Model Manager

Release Notes

r7.3



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CA Product References

This document references the following CA products:

- CA ERwin® Model Manager
- CA ERwin® Data Modeler
- CA ERwin® Process Modeler

Contact CA

Contact Technical Support

For your convenience, CA provides one site where you can access the information you need for your Home Office, Small Business, and Enterprise CA products. At <http://ca.com/support>, you can access the following:

- Online and telephone contact information for technical assistance and customer services
- Information about user communities and forums
- Product and documentation downloads
- CA Support policies and guidelines
- Other helpful resources appropriate for your product

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Chapter 1: Enhancements

Welcome to CA ERwin Model Manager, a member of the CA ERwin Modeling Suite. This chapter documents new features and changes made to existing features for CA ERwin Model Manager r7.3.

This section contains the following topics:

[Universal File Close Dialog](#) (see page 7)
[Features Added to Improve Complete Compare Performance with CA ERwin Model Manager](#) (see page 8)
[Compiled HTML Online Help](#) (see page 9)
[Documentation Bookshelf](#) (see page 9)
[Rebranding](#) (see page 9)

Universal File Close Dialog

The different Close dialogs in earlier releases have been replaced with a "universal" Close dialog to ensure a standardized look and feel throughout the product. When you finish working on a model either locally or from within CA ERwin Model Manager, you can close the current model and continue working on another, or you can close the model and exit. The Close Model dialog also shows the status of the file, such as if it was opened from the server, its lock status, and whether there are unsaved changes. The five model close scenarios are:

- File/Close from the CA ERwin Data Modeler application menu
- Service/Close from the CA ERwin Model Manager menu
- Close model when closing the diagram window
- File/Exit or Close models when exiting the CA ERwin Data Modeler application
- Close button in the Complete Compare wizard

Note: You must be connected to CA ERwin Model Manager to save a model to the mart.

Features Added to Improve Complete Compare Performance with CA ERwin Model Manager

New features have been added to maximize performance when working with CA ERwin Model Manager models and Complete Compare. When two different users check out a model from CA ERwin Model Manager, change the model, and check it back in to the mart, the differences display in the Difference Reconciliation dialog (part of the Complete Compare user interface).

A conflict exists when two users check the same model out of the mart, and then change the same object or property. When each user checks their models back in to the mart, a "three-way merge" is necessary to reconcile the differences made by each user, and the unchanged objects and properties in the mart. The three-way merge of the models is sometimes slow for large models because all objects participate in the compare process.

This compare functionality has changed to reduce the scope of comparison to only objects that have changed for both the local and mart version of the models. The criteria for detecting changes include the following:

- Objects that have been created in either the local or the mart copy.
- Objects that have been deleted or modified in at least one of either the local or mart copy.

Two new options have been added to the Options dialog available from the Tools menu. The Model Manager tab of the Options dialog now includes the following check boxes:

Bypass Difference Reconciliation Dialog if there are no conflicts

Select this check box to skip the Difference Reconciliation dialog if no conflicts are detected between the version of the model in the mart and the local version. If no conflicts are detected, the local copy is updated from the mart version before the model is saved.

Show All Objects in Difference Reconciliation Dialog

Select this check box to turn off the options to optimize the compare process. The Difference Reconciliation dialog will display all objects including those that were not modified in the checked out model and in the mart copy of the model.

Note: This feature was first made available with the r7.2.5 SP1 release.

Compiled HTML Online Help

Online help for all products in the Modeling Suite is now provided in Compiled HTML (CHM) format. This replaces Windows Help (HLP) format provided previously. The CHM help modules include full search capability, indexing, and a comprehensive table of contents. You can click the help button or press F1 in any program context and the online help file opens to the topic relevant to the feature you are using. The table of contents and topics are also synchronized, so that the topic opens the table of contents tree to the appropriate location at the same time it displays the help topic.

Documentation Bookshelf

The Documentation Bookshelf is a free-standing HTML-based reference tool that provides easy access to the online help and core reference documentation for CA ERwin Data Modeler and CA ERwin Model Manager. The Bookshelf provides a "front end" user interface where you can open individual PDF Guides or online help files, or search a combined index for all deliverables.

The Bookshelf is automatically installed with the product unless you select not to install it in the installation wizard. Click the Bookshelf item on the Start menu to open the bookshelf.

A zip file containing the complete Bookshelf is also provided as a download from the Technical Support page of CA Support Online at <http://support.ca.com>.

For more information on using the Bookshelf features, click the "Getting Started" link at the bottom of the main Bookshelf window. This topic introduces the layout of the Bookshelf, the various search options.

Note: The Bookshelf does not include the *Template Language and Macro Reference Guide*, nor the *ERwin Metamodel Reference Guide* files from the Technical Documentation Series. To access these documents, open them from the \Doc folder where you installed the product. You can also open these PDFs from a shortcut on the Start menu.

Rebranding

The reference to "AllFusion" in the product name has been replaced with the new product name "CA ERwin" as follows:

- AllFusion Model Manager to CA ERwin Model Manager.
- AllFusion MM to CA ERwin MM.

Chapter 2: System Information

This chapter describes hardware and software requirements that must be met or exceeded for CA ERwin Model Manager to install and run correctly.

This section contains the following topics:

[Operating System Support](#) (see page 11)

[Administrator Server System Requirements](#) (see page 12)

[DBMS Requirements](#) (see page 13)

[Client Workstation Requirements](#) (see page 14)

Operating System Support

CA ERwin Model Manager r7.3 requires that you have one of the following operating systems installed:

- Microsoft Windows Vista
- Microsoft Windows 2008 Server
- Microsoft Windows 2003 Server
- Microsoft Windows XP Service Pack 2

Administrator Server System Requirements

Verify that the machine where the software and license key (the administrator's workstation or file server for administrative files) are installed meets the minimum requirements summarized below. The disk space required for the administrative files used to create and manage the database is separate from the disk space required to accommodate models on the server where the database is located. Greater CPU speed, and more RAM and disk space result in better performance.

Note: While not recommended, the software and license key can be installed on the same machine as the database server.

- Intel Pentium III or equivalent supported by the Host DBMS
- 500 MB Disk Space
- DVD-readable device (only if installing from DVD media)
- 1 GB RAM (2 GB recommended for large models)

Note: Greater CPU speed, and more RAM and disk space result in better performance. The memory requirement of 1 GB is for the minimum size models of only a few entities. Larger size models may need greater memory. Experience has shown that 1 GB RAM and 500 MB disk space seems to be the most effective for our clients.

DBMS Requirements

Before you install CA ERwin Model Manager r7.3, you must use a DBMS supported by CA ERwin Model Manager as your host server. CA ERwin Model Manager r7.3 supports the following host DBMS:

- Oracle Versions 8i/9i/10g/11g
- SQL Server (2000/2005/2008)
- Sybase 12.x

You must be the database owner (dbo) for Microsoft SQL 2000 Server or Sybase, the database owner (dbo) and have the sysadmin role for Microsoft SQL 2005/2008 Server, or the database schema owner user and the DBA role in Oracle in the target database to create or delete a mart. Before you can install the CA ERwin Model Manager mart on the server, you must verify that the DBMS environment is prepared for CA ERwin Model Manager installation, and that the server system requirements meet at least the minimum specifications. Additionally, the administrator of the DBMS, must set up user permissions for the CA ERwin Model Manager mart.

Note: The dbo role for Microsoft SQL 2000 Server or Sybase is necessary only during the installation or upgrade. You can strip the installer of the dbo role after the installation or upgrade is complete. The database owner (dbo and sysadmin role) is necessary on the Microsoft SQL 2005/2008 Server for CA ERwin Model Manager functionality to work properly.

For information preparing the DBMS environment, see the CA ERwin Model Manager Implementation Guide.

Client Workstation Requirements

Each client workstation must have access to the DBMS on which CA ERwin Model Manager is installed. It is recommended that client workstations have at least 512 MB of RAM. You must also install a CA ERwin Data Modeler (CA ERwin DM) r7.3 and/or CA ERwin Process Modeler (CA ERwin PM) r7.3 client on each client workstation to use the data modeling and multi-user features. CA ERwin Model Manager r7.3 supports the following client products:

- CA ERwin® Data Modeler r7.3
- CA ERwin® Process Modeler r7.3
- CA ERwin® Model Navigator r7.3
- CA ERwin® Data Model Validator r7.3

Note: The memory requirement of 512 MB is for the minimum size models of only a few entities. Larger size models may need greater memory. Experience has shown that 1 GB RAM seems to be the most effective for our clients.

Chapter 3: Installation Considerations

Review the following installation considerations before installing the product. See the CA ERwin Model Manager Implementation guide for more information on the installation process.

This section contains the following topics:

[Installation Wizard](#) (see page 15)

[Silent Install](#) (see page 15)

[Microsoft SQL Server 2005 Permissions](#) (see page 15)

[Specify Use of Foreign Characters With Microsoft SQL Server 2005](#) (see page 16)

[Specify Use of Foreign Characters With Microsoft SQL Server 2000](#) (see page 17)

[CA ERwin Model Manager Client Version Checking](#) (see page 17)

Installation Wizard

An installation wizard has been added to the install process to make it easier for you to install more than one product from the CA ERwin Modeling Suite at a time. After the wizard starts, you are prompted to select from a list of applications to change or install. For example, you can select to install CA ERwin Process Modeler r7.3 and CA ERwin Model Manager r7.3 at the same time. After the install process completes, you are prompted to provide your license key for each product using the License Verification dialog.

Silent Install

CA ERwin Model Manager does not provide an unattended or silent install.

Microsoft SQL Server 2005 Permissions

For SQL Server 2000, you only need to have public assigned to save to the mart. However, when the repository is on an SQL Server 2005 instance, you need to have the bulkadmin permission designated as well. The ability to do bulk inserts (which was permitted by public, previously) is no longer part of the public permission. You must explicitly define this permission or when you attempt to save a model to a new CA ERwin Model Manager instance created using an SQL Server 2005 database, an error "You do not have permission to use the bulk load statement." is returned.

Specify Use of Foreign Characters With Microsoft SQL Server 2005

For Microsoft SQL Server 2005, it is necessary to modify your registry settings to have certain foreign language characters in your models recognized.

To specify the use of foreign characters with Microsoft SQL Server 2005

1. Click Run on the Start menu.

The Run dialog opens.

2. Enter regedit.

The Registry Editor opens.

3. Verify or Add the following registry entry:

[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\MSSQLServer\Client\DB-Lib]

"AutoAnsiToOem"="ON"

"UseIntlSettings"="ON"

Click File, Exit.

Your configuration is set to recognize foreign language characters in your models.

Specify Use of Foreign Characters With Microsoft SQL Server 2000

For Microsoft SQL Server 2000, it is necessary to select specific settings in the Client Network Utility to have certain foreign language characters in your models recognized.

To specify the use of foreign characters with Microsoft SQL Server 2000

1. Click Programs, Microsoft SQL Server, Client Network Utility on the Start menu.

The SQL Server Client Network Utility dialog opens.

2. Select the following check boxes on the DB-Library Options tab:

- Automatic ANSI to OEM conversion
- Use international settings

Click OK.

Your configuration is set to recognize foreign language characters in your models.

CA ERwin Model Manager Client Version Checking

When you connect a client (CA ERwin Data Modeler and <ERwinPM) to a CA ERwin Model Manager database, the software checks to verify that the client version is compatible with the current version of the CA ERwin Model Manager database. There is a version dependency, however the Service Pack version can vary.

Chapter 4: General Considerations

This chapter contains general information you should know before using CA ERwin Model Manager.

This section contains the following topics:

[Conversion Information](#) (see page 19)

[Conversion Preparation Recommendations](#) (see page 20)

[Conversion of CA ERwin Model Manager 4.1.4 Custom Security Profiles](#) (see page 20)

[Conversion Notes for Oracle and Microsoft SQL Server, and Sybase](#) (see page 21)

[Understanding Complete Compare Differences After Converting Your Models](#) (see page 21)

[Model Display in the Difference Reconciliation Dialog](#) (see page 22)

[Uninstalling the CA ERwin Model Manager Administrative Files](#) (see page 22)

Conversion Information

CA ERwin Model Manager r7.3 will be installed in new folders on your hard drive. r7.3 is an upgrade of r7.0, the name will remain Model Manager on the Start menu, however the AllFusion group name has been removed.

The following upgrade paths are available for CA ERwin Model Manager:

- From AllFusion MM 4.1.4 to AllFusion MM r7, r7.1, r7.2, or CA ERwin Model Manager r7.3.
- From AllFusion MM r7 to AllFusion MM r7.1, r7.2, or CA ERwin Model Manager r7.3.

For users of AllFusion MM 4.1.4, see the Upgrading CA ERwin Model Manager chapter of the CA ERwin Model Manager Implementation Guide for more information on converting your AllFusion MM 4.1.4 database to a CA ERwin Model Manager r7.3 database. This guide is in .PDF format, and can be opened from the CA ERwin Model Manager program group (Start, Programs, CA, ERwin, Model Manager, Implementation Guide).

Note: If you are running a version earlier than 4.1.4, you need to upgrade to 4.1.4 before you can upgrade to r7.3. You must open and save your models in AllFusion MM Version 4.1.4 before you can upgrade to CA ERwin Model Manager r7.3.

Conversion Preparation Recommendations

Before you convert, we recommend the following:

1. Verify that all models to be converted were saved and opened in your current database.
2. Close all open sessions.
3. Delete any unnecessary models. This reduces the conversion time and the amount of space used by the CA ERwin Model Manager database during the conversion.

A complete CA ERwin Model Manager Pre-Conversion checklist is available on <http://ca.com/support> in the Conversion Information Center on the Product Home Page for CA ERwin Model Manager. Before attempting to convert your mart, be sure to read this document. If you need assistance during the conversion process, you can open a support issue from the support link.

Conversion of CA ERwin Model Manager 4.1.4 Custom Security Profiles

Enhancements to the CA ERwin Data Modeler r7.3 meta-model may have an affect on custom security profiles that you created in AllFusion MM 4.1.4. If you defined custom security profiles or modified existing ones in the previous release, review your permissions to ensure that your security requirements are met in CA ERwin Model Manager r7.3.

Conversion Notes for Oracle and Microsoft SQL Server, and Sybase

Before you attempt an AllFusion MM 4.1.4 database conversion, please note the following.

For Oracle 9i or earlier AllFusion MM 4.1.4 databases:

1. Make sure you have at least as many rollback segments as used by your AllFusion MM 4.1.4 database. We strongly recommend that you follow the guidelines in the AllFusion Model Manager Administrator Guide.
2. Before you start a conversion, it is strongly recommended that you shrink rollback segments. Below is a sample SQL statement (for each segment):

```
ALTER ROLLBACK SEGMENT <RBS_NAME> SHRINK;
```

It is safe to randomly shrink rollback segments while the conversion is running, but you must be logged in as the DBA.

For Microsoft SQL Server and Sybase AllFusion MM 4.1.4 databases:

tempdb should be as big as the CA ERwin Model Manager DB size.

Understanding Complete Compare Differences After Converting Your Models

If you are working with AllFusion ERwin DM version 4.1.4, you can upgrade a model by opening and saving it in r7.3. You can also "round-trip" your r7.3 model by saving it as a 4.1.4 model and opening it in r7.3. You can use Complete Compare to compare the models as you work with them in version 4.1.4 and r7.3.

The technical document "Understanding Complete Compare Differences After Converting Your Models" helps you understand differences you may encounter in Complete Compare when working with 4.1.4 and r7.3 models. You can find the document on <http://ca.com/support> in the Conversion Information Center on the Product Home Page for CA ERwin Model Manager.

Model Display in the Difference Reconciliation Dialog

In a workgroup modeling environment, two users may check out and make changes to the same model. The first user may make changes to the model and save the changes to the mart. When the second modeler makes changes and saves them to the mart, the Difference Reconciliation dialog is displayed. You use features in this dialog to view the differences on the object level, or more detailed property level. You can search the text of the comparison lists, and you can generate a report of the differences. Note that in the Difference Reconciliation Dialog the model in the left pane is the current model that you are checking in to the mart. The model in the right pane is the version of the model already in the mart.

Uninstalling the CA ERwin Model Manager Administrative Files

You can use the Windows uninstall utility to uninstall the CA ERwin Model Manager administrative files. However, when you uninstall CA ERwin Model Manager, the CA ERwin Model Manager database remains intact. To remove the database from your computer, delete the CA ERwin Model Manager database first using CA ERwin MM Model Manager dialog, and then uninstall the CA ERwin Model Manager administrative files.

Chapter 5: Known Issues

This chapter describes known issues with CA ERwin Model Manager r7.3.

This section contains the following topics:

[SQL 1105 Error](#) (see page 23)

SQL 1105 Error

When you are upgrading to CA ERwin Model Manager r7.3 on Microsoft SQL, during the mart conversion process, you may get the message "Sql 1105" if you run out of free hard disk space during the process.

Stop the conversion process, and either free hard disk space or add hard disk. You should delete the already created r7.3 CA ERwin Model Manager tables and then re-attempt the conversion.

Chapter 6: Documentation

This section contains information about current product documentation.

This section contains the following topics:

[PDF Guides](#) (see page 25)

[New Release Notes PDF](#) (see page 25)

[Release Numbers](#) (see page 26)

PDF Guides

PDF guides for this product are as follows:

- CA ERwin Model Manager Implementation Guide (MdlMgr_Impl.pdf)
- CA ERwin Model Manager Administration Guide (MdlMgr_Admin.pdf)
- CA ERwin Model Manager Release Notes (MdlMgr_RelNote.pdf)

To view PDF files, you must download and install the Adobe Reader from the Adobe website if it is not already installed on your computer.

New Release Notes PDF

Earlier versions of the CA ERwin Modeling Suite products included a readme.html and Release Summary PDF file. The readme file included information about system requirements, supported operating systems, installation considerations, general considerations, a list of the published documentation for the product, and last-minute known issues. The Release Summary provided short descriptions of new features and enhancements for the current release.

For easier access these documents have been combined to a new PDF file, the Release Notes. The list of new features and enhancements is presented in the first chapter. Subsequent chapters include all the information previously published in the readme file.

You can access the Release Notes file from the final screen of the installation process, from the Start menu, and from the \Doc folder, located beneath the folder where you installed the product. The file is also available in the Download Center on support.ca.com.

Release Numbers

The release number on the title page of a document might not correspond to the current product release number; however, all documentation delivered with the product, regardless of release number on the title page, will support your use of the current product release. The release number changes only when a significant portion of a document changes to support a new or updated product release. If no substantive changes are made to a document, the release number does not change. For example, a document for r7 may still be valid for r7.2 or even r7.3. Documentation bookshelves always reflect the current product release number.

Occasionally, we must update documentation outside of a new or updated release. To indicate a minor change to the documentation that does not invalidate it for any releases that it supports, we update the edition number on the cover page. First editions do not have an edition number.